

# **PCB HOT SPOT AREA TCRA PROJECT STATUS UPDATE BCT MEETING JANUARY 26, 2012**





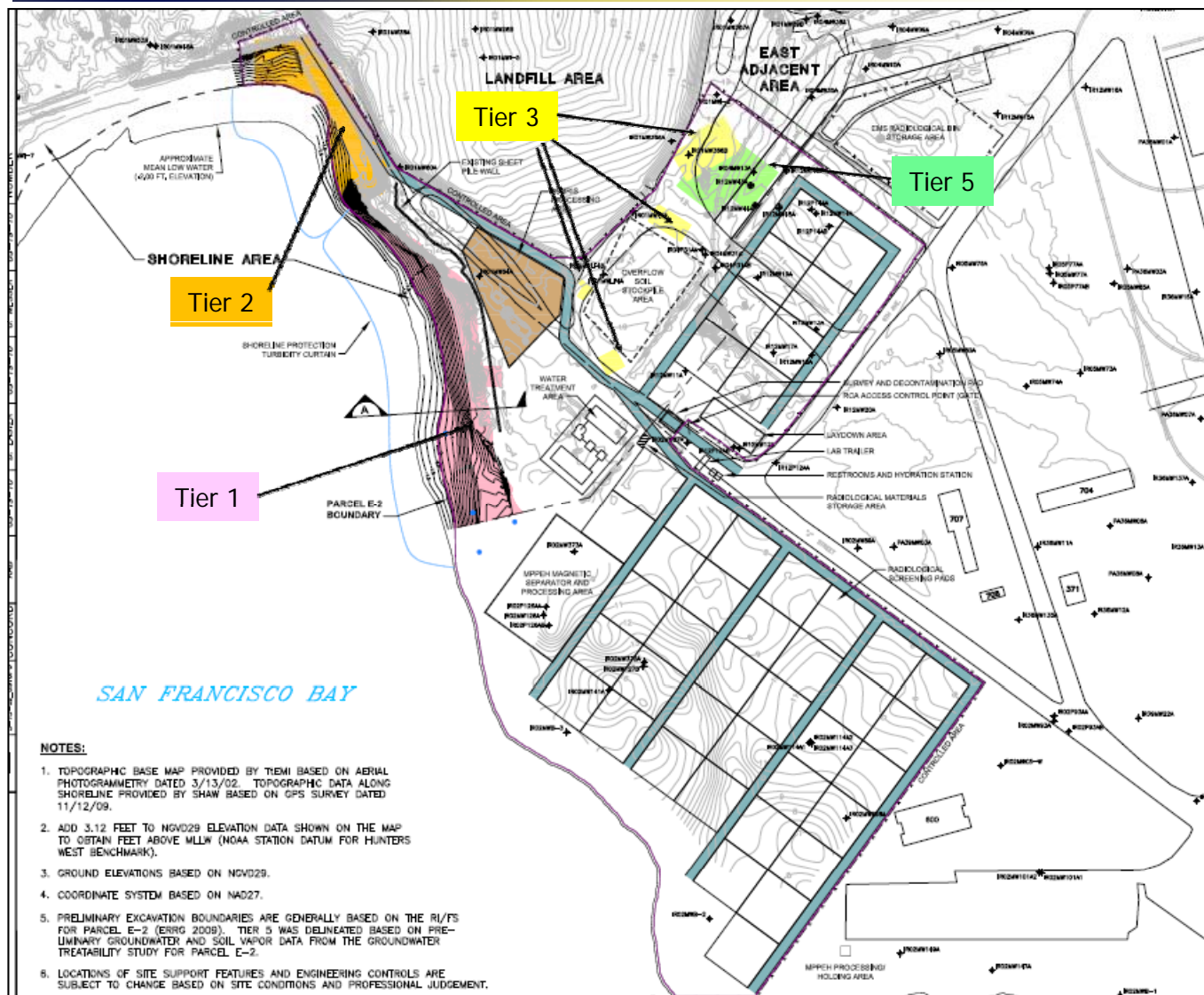
# Outline PCB Hot Spot TCRA



- Tier 1
- Tier 2
- Tier 3
- Tier 5
  - Characterization through Potholing
- Update - What Gets Left Behind
- Schedule



# Site Layout Map

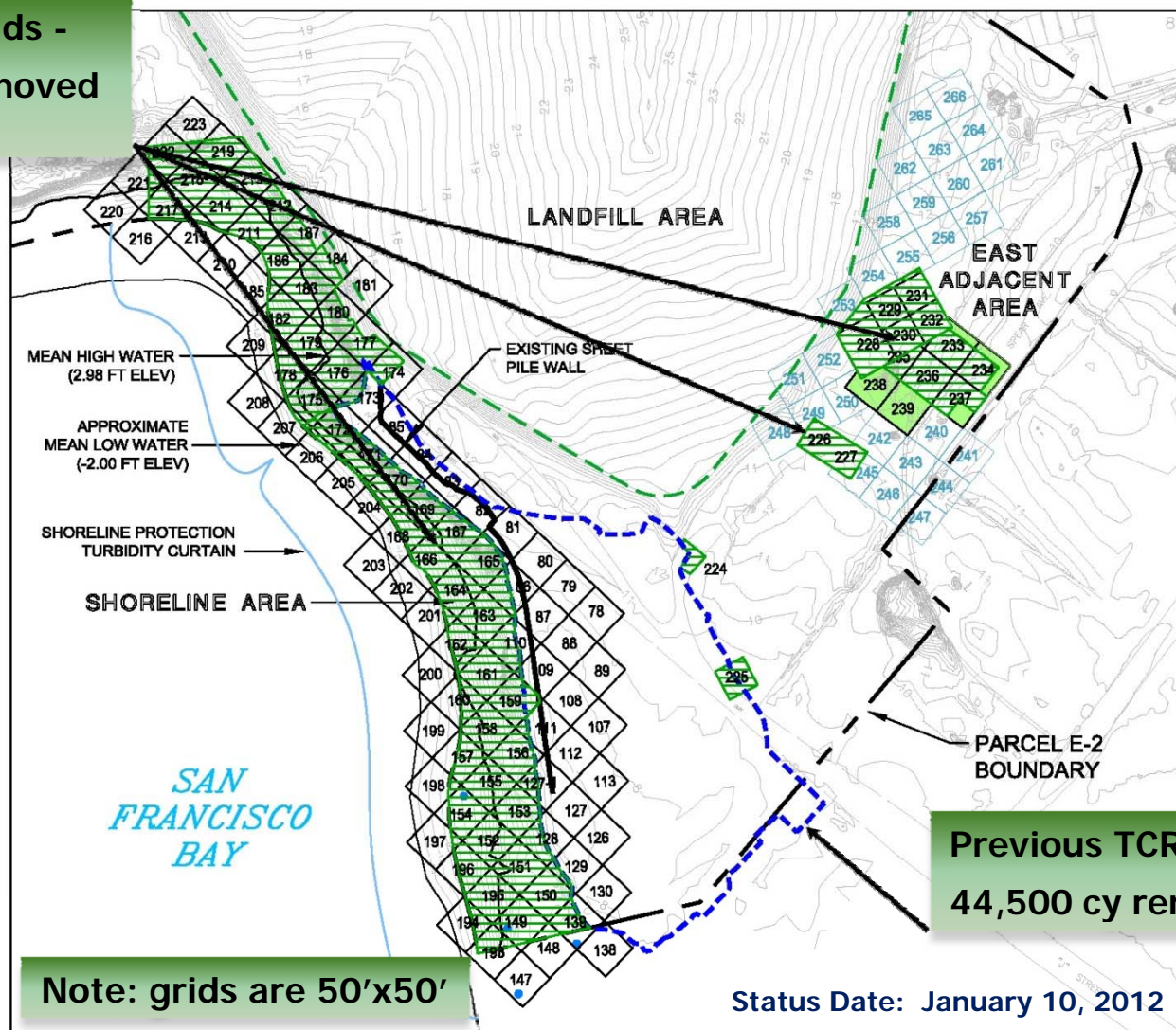




# TCRA Progress –Excavations Complete



Excavated grids -  
41,150 cy removed  
to date





## Tier 1



- 100% of grids (47) excavated, sampled, and backfilled
- Over-excavated 16 of 47 grids to <PALs or 10 ft bgs
- Over-excavated an additional 6 of 47 grids to 12-16.5 ft bgs
- Over-excavated 2 sidewalls
- 21,771 cy excavated
- PAL exceedances for PCB or TPH in 10 bottom samples remain (below 10 ft bgs or deeper)
- PAL exceedances for PCB or TPH in 14 sidewall samples remain (along Parcel E and F boundaries)
- Southern boundary (along Parcel E) marked with snow fence for future delineation
- Placement of temporary shoreline revetment complete



# Tier 1



View of Tier 1 looking south before TCRA  
July 6, 2010



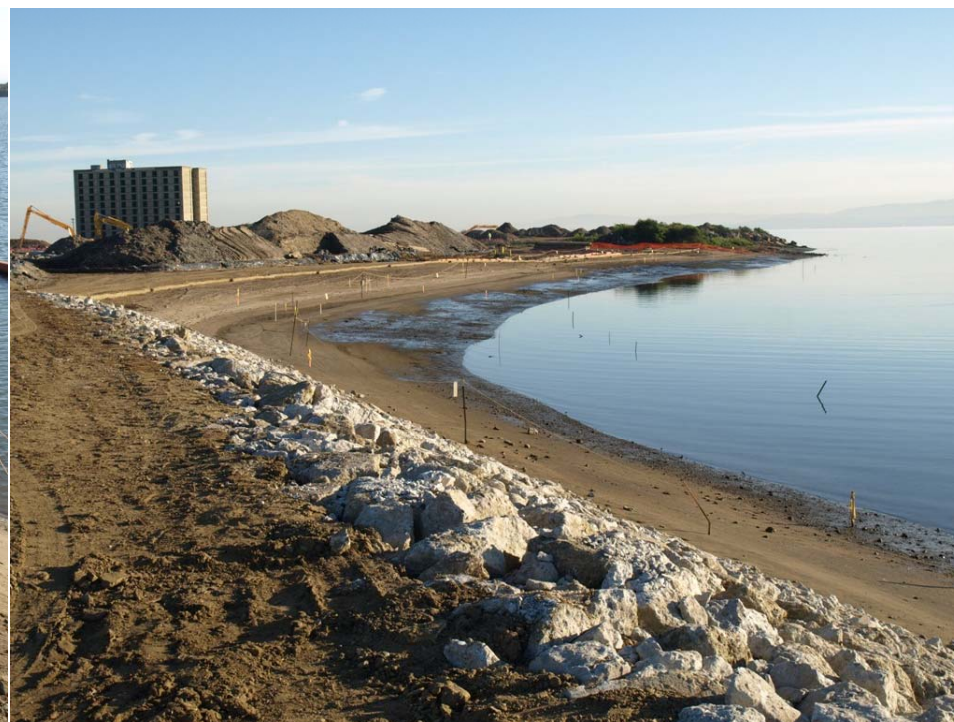
View of Tier 1 looking south during field work  
September 13, 2011



# Tier 1



View of Tier 1 looking south upon completed excavation work and prior to placement of temporary revetment; turbidity curtain still deployed  
November 16, 2011



View of Tier 1 looking south; revetment complete and turbidity curtain demobilized  
January 12, 2012



## Tier 2



- 100% of grids (29) excavated, sampled, and backfilled
- Over-excavated 12 of 29 grids to <PALs or 10 ft bgs
- Over-excavated an additional 6 of 29 grids to 12-17 ft bgs
- Over-excavated 3 sidewalls to 14 ft bgs or deeper
- PAL exceedances for PCB in 2 bottom samples remain (along Parcel F)
- PAL exceedance for Pb in 1 bottom sample remains (Grid 177 at 15.6 ft bgs)
- PAL exceedances for PCB in 8 sidewall samples remain (6 along Parcel F and 1 in Grid 174)
- 10,607 cy excavated
- Placement of temporary shoreline revetment complete



## Tier 2



Tier 2 prior to TCRA at high tide looking north  
November 17, 2009

Tier 2 wetland area at low tide looking north  
June 4, 2010



## Tier 2



Backfill placement in Tier 2 at low tide  
October 26, 2010



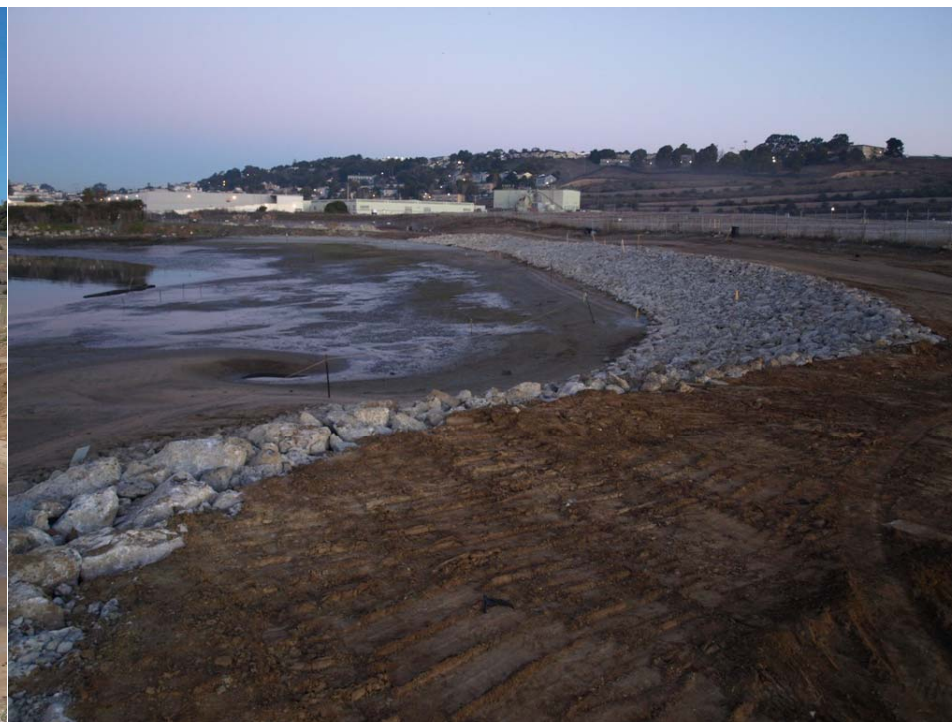
Excavation of Tier 2 during low tide event  
December 1, 2010



## Tier 2



Excavation of Tier 2 complete; prior to placement  
of temporary revetment  
August 16, 2011



Tier 2 looking north; placement of temporary  
revetment complete and turbidity curtain  
demobilized  
January 12, 2012



## Tier 3



- 100% of grids (9) excavated and confirmation sampled
- 80% of Tier 3 has been backfilled
- Over-excavated 3 sidewalls to 4-7.5 ft bgs
- Grid 224 sidewall at 8 ft shows exceedance for TPH (15,907 mg/kg)
- 4 sidewall samples from Grids 226 and 227 show exceedances for TPH and/or PCB
- Grid 231 sidewall still exhibits exceedances for TPH (9,000 mg/kg) and Pb (111,000 mg/kg)
- 4,602 cy excavated



## Tier 3



8' SW sample  
TPH = 15,907  
mg/kg

TPH PAL =  
3,500 mg/kg



Southwestern section of Grid 224 with visible TPH looking east. Confirmation samples show that northeastern section meet PALs

December 7, 2011

Hunters Point Naval Shipyard BCT Meeting – January 26, 2012\_13



## Tier 5



- 100% of grids (5) excavated and confirmation sampled
- 1,993 cy excavated
- Excavated 5 of 7 grids (at contract ceiling)
- Excavation of Grids 238 and 239 not completed – hot spot removal planned
- VOC confirmation sampling complete, all grids below PALs except for Grid 235 (PCE)

Tier	Grid	Lead (19,700)	tTPH (3,500)	tPCB (74)	1,1 Dichloroethane (2.8)	tetrachloroethene (0.48)	Trichloroethene (2.9)	vinyl chloride (0.024)
5	235-B-10	38.5	347.0502	0.1	ND	2.38	0.267	ND
5	235-SW-3	20.5	12.342	0.1052	ND	4.45	ND	ND



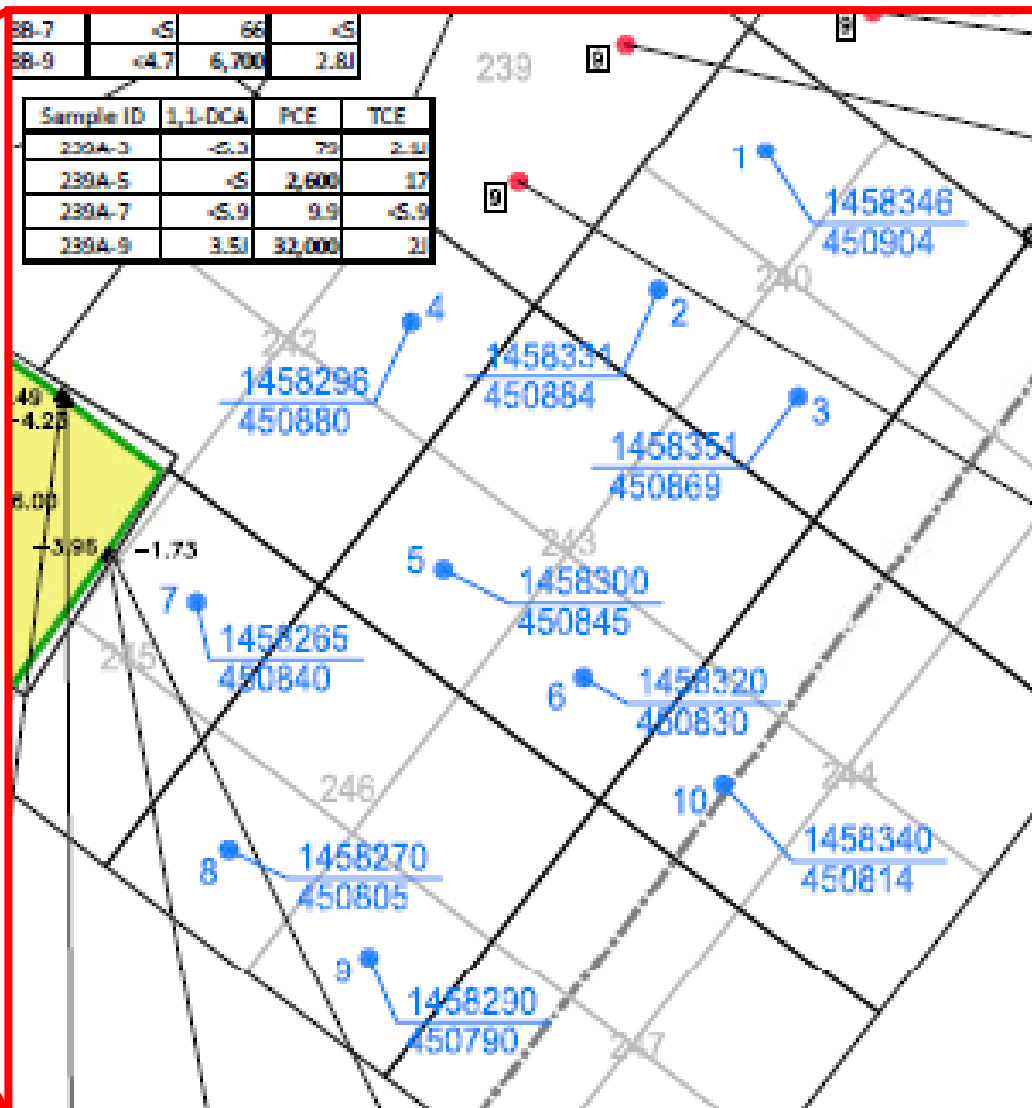
## Tier 5



Grid 235/238 sidewall during confirmation sampling event in Tier 5  
facing northeast December 7, 2011



## Tier 5 - Potholing



- 8 locations selected for further characterization (VOCs) outside area not excavated
- Northing and Eastings established

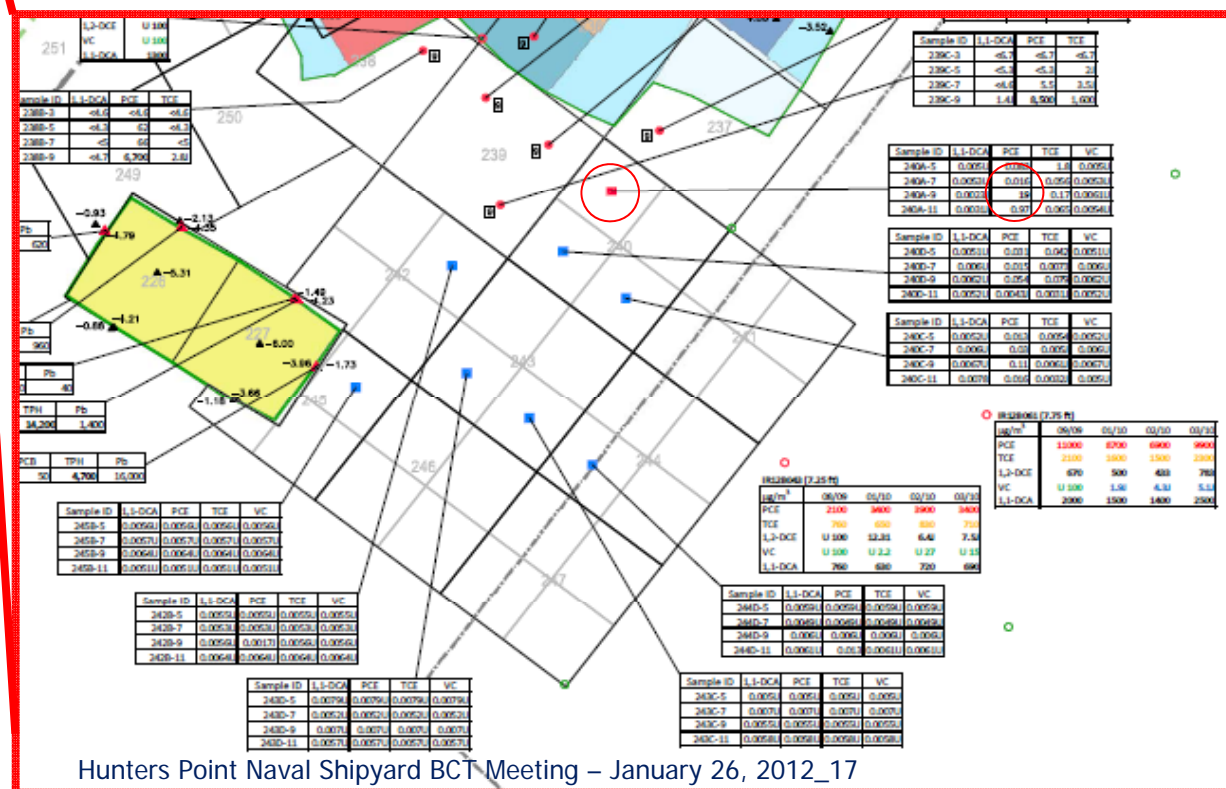
Note: Locations 8 and 9 were not sampled because data from previous soil gas sampling show no presence of VOCs.



# Tier 5 - Potholing



- Potholing complete - 1 of the 8 locations had PCE above PALs (PCE 19 ppm in Grid 240 at 9 ft bgs)
- Pre-TCRA characterization sampling (March 2010) shows exceedances in 5 quadrants
- Some PCE hot spots to be addressed with limited additional excavation (~550 cy).





## MPPEH Screening



- MPPEH screening of soil from Tiers 1, 3, and 5
- 14 MDAS (material determined as safe) items encountered to date
- 3 wooden or chrome plated display items and one inert item (non MDAS) encountered to date
- No MEC (munitions and explosives of concern) encountered to date
- 20,500 cy processed to date and Third Party QA inspected and cleared
- Approximately 8,500 cy remains to be processed



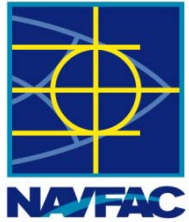
# Radiological Screening



- Radiological screening continues on all soils and materials
- 37 radiological commodities encountered to date
- Radiologically cleared over 2,500 cy of concrete and rock for reuse
- Radiologically cleared and recycled over 25,000 lbs of metal rebar



Concrete laid out for 100 percent screening prior to sizing and reuse as temporary revetment.



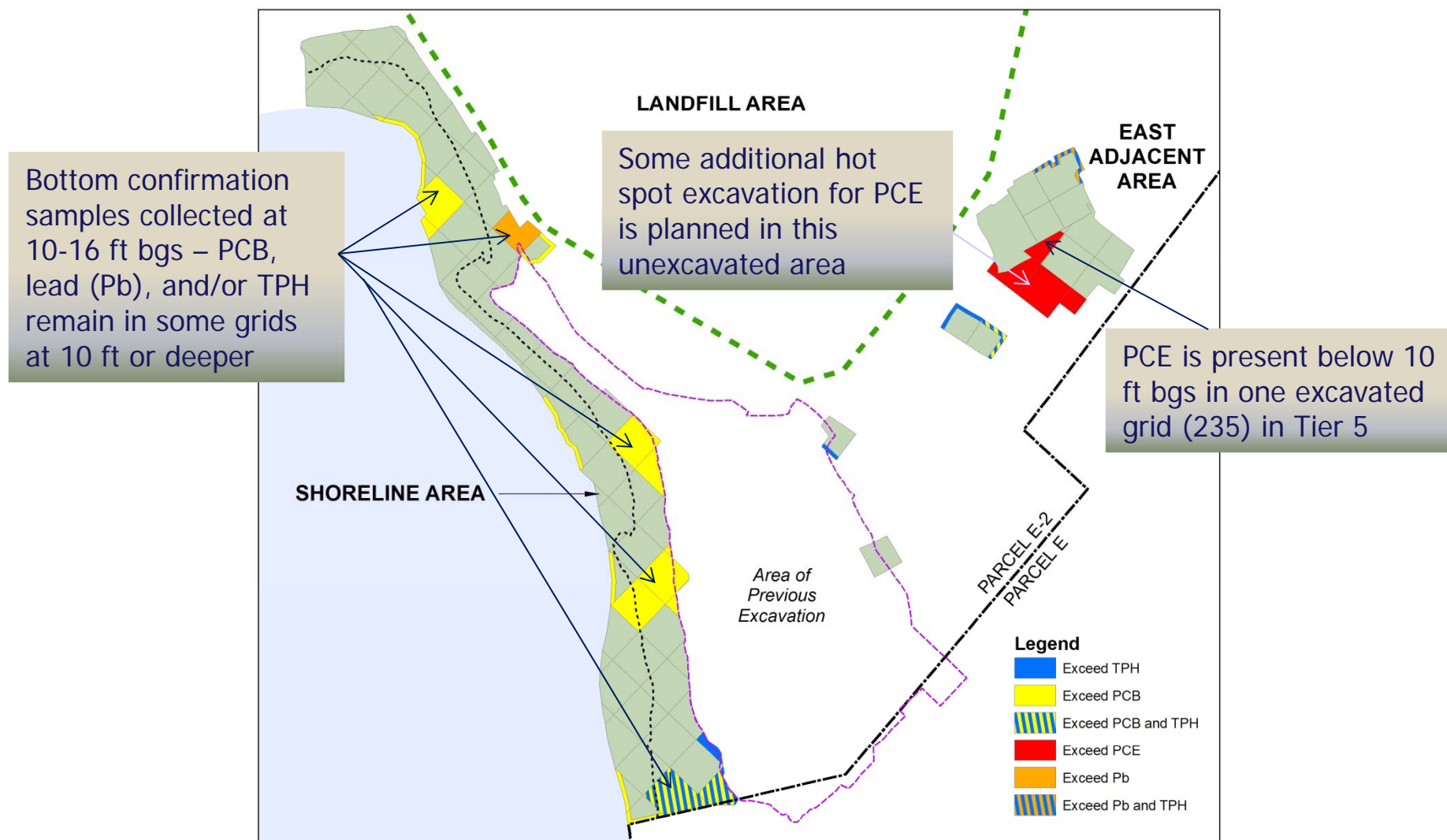
## Update - What Gets Left Behind



- Tier 1
  - TPH and PCB exceedances along Parcels E and F boundaries
- Tier 2
  - TPH and PCB exceedances along Parcel F and PCB and Pb exceedances in grid 174 along Landfill
- Tier 3
  - Grid 231 sidewall (PALs exceeded for TPH and Pb)
  - Grids 224, 226, and 227 sidewalls (PALs exceeded for TPH and PCB)
- Tier 5
  - Grids 235, 238, 239, and 240 (PALs exceeded for PCE >5 ft bgs)



## Update – What Get's Left Behind (Cont'd)





# Schedule



Activity	Date
Complete Radiological and MPPEH Soil Screening	January – April 2012
Complete Backfill and Site Restoration	January – April 2012
Demobilize	April 2012
Submit Draft Removal Action Completion Report for Regulatory Review	June 2012